

APPENDIX 3

Sustainable Forestry Criteria

Darrell Zastrow



Criteria and Indicators for Michigan, Minnesota, Ontario & Wisconsin (taken from the *Sustainable Forest Management: Policy, Planning & Practice Forum Report*, hosted by The Johnson Foundation, The Great Lakes Forest Alliance, and the USDA Forest Service May 15–17, 2000).

I. ECOLOGICAL PILLAR

Criterion 1: Maintenance of Biological Resources

- Indicator 1 Proportion of forest in each successional stage
- Indicator 2 Proportion of forest area in each cover and age-class type
- Indicator 3 Abundance of, and trends in, rare, threatened and endangered forest-based species
- Indicator 4 Abundance of selected forest-based species
- Indicator 5 Amount of habitat for selected forest species
- Indicator 6 Area of forest not satisfactorily regenerated
- Indicator 7 Trends in the area of forest land as a result of deforestation (by type of loss) and afforestation.
- Indicator 8 Frequency of disturbance and distribution of disturbed area, by disturbance type and severity.
- Indicator 9 Fragmentation and connectivity

Criterion II: Maintenance of Soil, Water and Air Quality

- Indicator 10 Compliance with, and effectiveness of water quality BMPs (Best management practices)
- Indicator 11 Impact of forest activities on soil

II. ECONOMIC PILLAR

Criterion III: Provision of Multiple Economic Benefits

- Indicator 12 Area of forest land
- Indicator 13 Percent of primary industry expenditures accounted for by renewable raw materials (forest and agriculturally derived fiber)
- Indicator 14 Great Lakes share of North American and global forest products markets accounted for by forest-based businesses
- Indicator 15 Wood flow in the Great Lakes region
- Indicator 16 Harvest vs. growth on Great Lakes timberland
- Indicator 17 Number and value of forest recreation days
- Indicator 18 Diversity of forest-based industry (sales volume by sector)
- Indicator 19 Forest-based employment picture by sector
- Indicator 20 Value added by forest resource-based industries
- Indicator 21 Capital expenditures by forest resource-based industries (including forest products, tourism, other)
- Indicator 22 Net carbon flux of Great Lakes forests

III. SOCIAL PILLAR

Criterion IV: Maintenance of community and cultural values

- Indicator 23 Importance of forests in people's daily lives
- Indicator 24 Important features and places
- Indicator 25 Range of uses of the forest and meanings for those uses
- Indicator 26 Access to both public and private forest lands
- Indicator 27 Community capacity and civic responsiveness
- Indicator 28 Social trends

Criterion V: Society's Framework for Sustainable Forest Management

- Indicator 29 Availability of incentives
- Indicator 30 Existence of laws, policies and regulations
- Indicator 31 Awareness and support for sustainable forest management
- Indicator 32 Representativeness of all publics in public participation processes
- Indicator 33 Perceptions of fairness and justice